

Storm Data and Unusual Weather Phenomena - April 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ILLINOIS, South				
ALEXANDER COUNTY --- 1.3 E CAIRO [37.00, -89.16], 2.6 ESE CAIRO [36.99, -89.14], 2.2 ESE CAIRO [36.98, -89.14], 1.1 ESE CAIRO [37.00, -89.16]				
	04/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	04/07/10 16:00 CST		0	Source: River/Stream Gage
Minor flooding of the Ohio River occurred in the vicinity of Cairo. Low-lying river access roads, farm fields, and state parkland were under water.				
ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.9 WNW THEBES JCT [37.21, -89.46], 0.7 SE THEBES [37.21, -89.46], 0.4 E THEBES [37.22, -89.46]				
	04/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	04/13/10 07:00 CST		0	Source: River/Stream Gage
Minor flooding of the Mississippi River inundated some low-lying fields and river access points around Thebes.				
JACKSON COUNTY --- 3.0 W MURPHYSBORO [37.77, -89.38], 1.5 W MT CARBON [37.75, -89.36], 1.5 WNW MT CARBON [37.76, -89.36], 2.4 W MURPHYSBORO [37.76, -89.37]				
	04/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	04/06/10 08:00 CST		0	Source: River/Stream Gage
Minor flooding of the Big Muddy River occurred near Murphysboro. Low-lying fields and some parkland were flooded.				
PULASKI COUNTY --- 2.6 S NEW GRAND CHAIN [37.21, -89.02], 3.0 SE NEW GRAND CHAIN [37.22, -88.98], 2.5 ESE NEW GRAND CHAIN [37.23, -88.98], 2.2 SSW NEW GRAND CHAIN [37.22, -89.03]				
	04/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	04/06/10 15:00 CST		0	Source: River/Stream Gage
Minor flooding of the Ohio River occurred around Grand Chain. Some low-lying fields and river access points were under water.				
Heavy rainfall in mid-March caused a few rivers to rise above flood stage. The rivers crested by the end of March, then fell below flood stage by mid-April.				
(IL-Z075) JEFFERSON, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z088) UNION, (IL-Z092) ALEXANDER				
	04/06/10 11:00 CST		17K	Strong Wind (MAX 40 kt)
	04/06/10 18:00 CST		0	
Strong south winds occurred between a low pressure center over Kansas and high pressure off the southeast United States coast. Peak wind gusts ranged from 40 to 45 mph generally along and west of Interstate 57, which runs from Mount Vernon south to Cairo. In northern Williamson County, the metal roof of a lumber company in Johnston City collapsed. The metal roof was over a building that was of a pole-barn type of construction. The east side wall nearly came down. The roof was new, installed to replace the one blown off in the May 8 windstorm of 2009. Some power lines were blown down in the area.				
JACKSON COUNTY --- 1.7 WSW CRAIN [37.76, -89.53], 0.9 NNW CRAIN [37.78, -89.50]				
	04/07/10 15:28 CST		5K	Tornado (EF0, L: 1.88 mi , W: 50 yd)
	04/07/10 15:31 CST		0	Source: NWS Storm Survey
Half of the metal roof of a small farm shed was blown off. A large tree and less than a dozen small trees were blown down. A tree and power lines were down on Highway 3. A few signs were blown down. Less than ten percent of the metal roofing and siding was blown off a house. Some wheat less than a foot tall was blown down. A trained spotter and a local resident took photos, but the tornado was very difficult to identify through the rain. Peak winds in this tornado were estimated near 85 mph.				
WABASH COUNTY --- MT CARMEL [38.42, -87.77]				
	04/07/10 18:30 CST		0	Heavy Rain
	04/07/10 19:00 CST		0	Source: Trained Spotter
Significant ponding of water was reported on secondary streets.				
A cold front trailed south-southwestward from a surface low pressure center over west central Illinois through southeast Missouri. This cold front provided the low level lift for short lines of thunderstorms to develop during the late afternoon. Some breaks in the clouds allowed sunshine to destabilize the atmosphere, but mixed layer capes remained at or below 1000 j/kg due to modest lapse rates and low-level moisture. Surface dew points around 60 degrees pooled along the front. Wind profiles were unidirectional and generally parallel to the front. As a result, the storms were mainly organized into short linear structures with some bowing segments.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An isolated non-supercell tornado occurred west of Murphysboro.				
(IL-Z075) JEFFERSON, (IL-Z076) WAYNE, (IL-Z077) EDWARDS, (IL-Z078) WABASH, (IL-Z080) PERRY, (IL-Z081) FRANKLIN, (IL-Z082) HAMILTON, (IL-Z083) WHITE, (IL-Z084) JACKSON, (IL-Z085) WILLIAMSON, (IL-Z086) SALINE, (IL-Z087) GALLATIN, (IL-Z088) UNION, (IL-Z089) JOHNSON, (IL-Z090) POPE, (IL-Z091) HARDIN, (IL-Z092) ALEXANDER, (IL-Z093) PULASKI, (IL-Z094) MASSAC				
	04/09/10 03:00 CST		0	Frost/Freeze
	04/09/10 07:00 CST		0	
Surface high pressure brought clear skies and light winds, setting the stage for frost formation. Temperatures bottomed out in the mid to upper 30's in most places. The cold spot was Mount Vernon, where the low was 32 degrees. The strawberry crop was the most vulnerable to damage, since most other vegetation was still dormant.				
PULASKI COUNTY --- 1.0 E GRAND CHAIN [37.27, -89.00]				
	04/24/10 12:31 CST		0	Funnel Cloud
	04/24/10 12:31 CST		0	Source: Trained Spotter
PULASKI COUNTY --- KARNAK [37.28, -88.97]				
	04/24/10 12:41 CST		0	Thunderstorm Wind (EG 52 kt)
	04/24/10 12:41 CST		0	Source: Trained Spotter
A trained spotter estimated winds gusted to 60 mph. A few small tree limbs were blown down.				
PULASKI COUNTY --- KARNAK [37.28, -88.97]				
	04/24/10 12:42 CST		0	Hail (1.00 in)
	04/24/10 12:42 CST		0	Source: Trained Spotter
JOHNSON COUNTY --- VIENNA [37.42, -88.90], 2.0 S VIENNA [37.39, -88.90]				
	04/24/10 12:45 CST	20K		Thunderstorm Wind (EG 52 kt)
	04/24/10 12:45 CST	0		Source: Law Enforcement
Numerous trees and power lines were blown down from Vienna south for a couple of miles.				
SALINE COUNTY --- 0.5 S ELDORADO [37.81, -88.43], 2.0 WSW COTTAGEGROVE [37.74, -88.43]				
	04/24/10 13:00 CST		0	Heavy Rain
	04/24/10 15:05 CST		0	Source: Law Enforcement
Standing water was over State Route 142 at a couple of locations just south of Eldorado. There was a major vehicle accident at one of the locations. Several roadways in eastern Saline County were under water.				
JEFFERSON COUNTY --- MT VERNON [38.32, -88.90], 2.0 E MT VERNON [38.32, -88.86]				
	04/24/10 17:45 CST	10K		Thunderstorm Wind (EG 52 kt)
	04/24/10 17:50 CST	0		Source: Public
Several trees were down on a golf course just east of Mount Vernon. Large tree limbs were down in the city of Mount Vernon. Power outages were reported around the area.				
A well-organized upper level low moved east from the central Plains into the Mid Missouri Valley during the day. Very strong winds aloft accompanied this system. A streak of very strong mid level winds punched northeast from the Arklatex region into the Lower Ohio Valley during the afternoon. A low level jet from 50 to 60 knots over the Lower Mississippi Valley nosed into the Lower Ohio Valley. At the surface, a low pressure center tracked from north central Arkansas to near St. Louis by late afternoon. Though surface dew points climbed into the lower to mid 60's, extensive cloudcover along and ahead of a warm front limited instability. The instability was generally weak, characterized by cape values below 1000 j/kg. A short, bowing line segment was responsible for most of the severe weather reports.				
ALEXANDER COUNTY --- THEBES [37.22, -89.47], 0.9 SSE THEBES [37.21, -89.46], 0.8 SE THEBES [37.21, -89.46], 0.4 E THEBES [37.22, -89.46]				
	04/30/10 08:00 CST		0	Flood (due to Heavy Rain)
	04/30/10 23:59 CST		0	Source: River/Stream Gage
Minor flooding occurred on the Mississippi River near Thebes. Some low-lying fields and river access points were under water.				
Another round of heavy rain in the upper Mississippi River Valley caused the Mississippi River to rise above flood stage by the end of the month.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
PERRY COUNTY --- DU QUOIN [38.02, -89.23]	04/30/10 22:00 CST		6K	Thunderstorm Wind (EG 50 kt)
	04/30/10 22:00 CST		0	Source: Trained Spotter
Large tree limbs were down on power lines.				
PERRY COUNTY --- DU QUOIN [38.02, -89.23]	04/30/10 22:04 CST		0	Hail (0.88 in)
	04/30/10 22:04 CST		0	Source: Trained Spotter
JOHNSON COUNTY --- BUNCOMBE [37.47, -88.97]	04/30/10 22:13 CST		0	Hail (1.00 in)
	04/30/10 22:13 CST		0	Source: Trained Spotter
FRANKLIN COUNTY --- ZEIGLER [37.90, -89.05]	04/30/10 22:52 CST		0	Heavy Rain
	04/30/10 23:50 CST		0	Source: Trained Spotter
Street flooding was reported in Zeigler.				
Thunderstorms developed ahead of an eastward moving cold front over the Ozarks. Strengthening mid-level winds ahead of a strong shortwave trough over the central Plains aided storm development. Moderate instability combined with strong effective bulk shear around 50 knots provided very favorable conditions for supercells as the storms spread northeastward.				

INDIANA, Southwest

GIBSON COUNTY --- 2.5 W HAZLETON [38.49, -87.58], 2.8 WNW HAZLETON [38.49, -87.58], 1.3 WNW HAZLETON [38.49, -87.55], 1.3 WNW HAZLETON [38.49, -87.55]	04/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	04/04/10 17:00 CST		0	Source: River/Stream Gage
Minor flooding of the White River occurred. Some low oil fields were flooded. A few low rural roads were flooded. High water isolated Pottstown, a river cabin community.				
PIKE COUNTY --- 1.8 NE PETERSBURG [38.52, -87.26], 1.8 NNE PETERSBURG [38.52, -87.27], 1.0 NNW PETERSBURG [38.51, -87.29], 0.8 N PETERSBURG [38.51, -87.28]	04/01/10 00:00 EST		0	Flood (due to Heavy Rain)
	04/03/10 07:00 EST		0	Source: River/Stream Gage
Minor flooding of the White River occurred. Flooding affected low agricultural lands and low oil fields.				
Heavy rainfall in mid and late March caused the White River to rise above flood stage. The river crested by the end of March, then fell below flood stage in early April.				
PIKE COUNTY --- PETERSBURG [38.50, -87.28]	04/07/10 18:00 EST		0	Heavy Rain
	04/07/10 18:30 EST		0	Source: Trained Spotter
A trained spotter measured almost one-half inch of rain in 30 minutes.				
POSEY COUNTY --- FARMERSVILLE [37.98, -87.90]	04/07/10 18:36 CST		50K	Thunderstorm Wind (MG 62 kt)
	04/07/10 18:36 CST		0	Source: Broadcast Media
The roof was blown off the gym at the Farmersville elementary school. The roof was blown about 100 yards away. Water damage occurred due to heavy rain that poured into the building. An electronic weather station at the school measured a wind gust to 71 mph.				
A cold front trailed south-southwestward from a surface low pressure center over west central Illinois through southeast Missouri. This cold front provided the low level lift for short lines of thunderstorms to develop during the late afternoon. Some breaks in the clouds allowed sunshine to destabilize the atmosphere, but mixed layer capes remained at or below 1000 j/kg due to modest lapse				

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rates and low-level moisture. Surface dew points around 60 degrees pooled along the front. Wind profiles were unidirectional and generally parallel to the front. As a result, the storms were mainly organized into short linear structures with some bowing segments that produced damaging wind.

(IN-Z081) GIBSON, (IN-Z082) PIKE, (IN-Z085) POSEY, (IN-Z086) VANDERBURGH, (IN-Z087) WARRICK, (IN-Z088) SPENCER

04/09/10 03:00 CST	0	Frost/Freeze
04/09/10 07:00 CST	0	

Surface high pressure brought clear skies and light winds, setting the stage for frost formation. Temperatures bottomed out in the mid to upper 30's in most places. The strawberry crop was the most vulnerable to damage, since most other vegetation was still dormant.

KENTUCKY, Southwest

LIVINGSTON COUNTY --- LEDBETTER [37.05, -88.48]

04/07/10 18:30 CST	0	Thunderstorm Wind (MG 50 kt)
04/07/10 18:30 CST	0	Source: Trained Spotter

Pea-sized hail accompanied the wind gust, which was measured at a golf course along the Ohio River.

LYON COUNTY --- KUTTAWA [37.07, -88.12]

04/07/10 18:47 CST	5K	Thunderstorm Wind (EG 52 kt)
04/07/10 18:47 CST	0	Source: Law Enforcement

A large sign was blown across Interstate 24. A traffic control barrier was blown onto the road, blocking it.

HOPKINS COUNTY --- 3.0 WNW MADISONVILLE [37.35, -87.55], MADISONVILLE [37.33, -87.50]

04/07/10 19:21 CST	15K	Thunderstorm Wind (EG 61 kt)
04/07/10 19:23 CST	0	Source: Trained Spotter

A few miles west of Madisonville, a porch was heavily damaged. The front wall of the porch separated from the foundation, and the porch windows were blown out. At a nearby business, an aluminum roof was ripped off a storage shed. A trained spotter estimated a wind gust of 70 mph. In the city, a couple of power lines were blown down, causing power outages.

DAVIESS COUNTY --- (OWB)OWENSBORO ARPT [37.75, -87.17], 0.9 S DOYLE [37.74, -87.07]

04/07/10 19:49 CST	0	Thunderstorm Wind (MG 63 kt)
04/07/10 19:56 CST	0	Source: AWOS

A wind gust to 73 mph was measured at the automated weather observing station at the Owensboro airport. A gust of 64 mph was measured at the community college on U.S. Highway 231 near the U.S. 60 bypass.

CHRISTIAN COUNTY --- 2.0 W HOPKINSVILLE [36.85, -87.52], 2.6 N GAINSVILLE [36.91, -87.47]

04/07/10 19:52 CST	5K	Thunderstorm Wind (MG 52 kt)
04/07/10 19:52 CST	0	Source: Trained Spotter

A mobile storm chase vehicle measured a wind gust of 60 mph on U.S. Highway 68 just west of Hopkinsville. Power lines were blown down on the north side of Hopkinsville, about a mile north of the Pennyriple Parkway interchange with the bypass.

DAVIESS COUNTY --- WHITESVILLE [37.68, -86.88]

04/07/10 20:07 CST	0	Hail (0.75 in)
04/07/10 20:07 CST	0	Source: Trained Spotter

The dime-size hail was accompanied by 40 to 50 mph winds.

DAVIESS COUNTY --- OWENSBORO [37.77, -87.12]

04/07/10 22:45 CST	0	Heavy Rain
04/07/10 23:45 CST	0	Source: Trained Spotter

Minor flooding occurred in flood-prone neighborhoods. About six inches of standing water covered some streets and low spots.

A cold front trailed south-southwestward from a surface low pressure center over west central Illinois through southeast Missouri. This cold front provided the low level lift for short lines of thunderstorms to develop during the late afternoon. Some breaks in the

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
clouds allowed sunshine to destabilize the atmosphere, but mixed layer capes remained at or below 1000 j/kg due to modest lapse rates and low-level moisture. Surface dew points around 60 degrees pooled along the front. Wind profiles were unidirectional and generally parallel to the front. As a result, the storms were mainly organized into short linear structures with some bowing segments that produced damaging wind.				
(KY-Z001) FULTON, (KY-Z002) HICKMAN, (KY-Z003) CARLISLE, (KY-Z004) BALLARD, (KY-Z005) MCCrackEN, (KY-Z006) GRAVES, (KY-Z007) LIVINGSTON, (KY-Z008) MARSHALL, (KY-Z009) CALLOWAY, (KY-Z010) CRITTENDEN, (KY-Z011) LYON, (KY-Z012) TRIGG, (KY-Z013) CALDWELL, (KY-Z014) UNION, (KY-Z015) WEBSTER, (KY-Z016) HOPKINS, (KY-Z017) CHRISTIAN, (KY-Z018) HENDERSON, (KY-Z019) DAVIESS, (KY-Z020) MCLEAN, (KY-Z021) MUHLENBERG, (KY-Z022) TODD				
	04/09/10 03:00 CST		0	Frost/Freeze
	04/09/10 07:00 CST		0	
Surface high pressure brought clear skies and light winds, setting the stage for frost formation. Temperatures bottomed out in the mid to upper 30's in most places. The cold spot was a mesonet site six miles southwest of Mayfield, where the low was 33 degrees. The strawberry crop was the most vulnerable to damage, since most other vegetation was still dormant.				
BALLARD COUNTY --- KEVIL [37.08, -88.90], 4.5 ENE INGLESIDE [37.14, -88.84]				
	04/24/10 12:45 CST		0	Heavy Rain
	04/24/10 13:45 CST		0	Source: Amateur Radio
Nearly one and three-quarters inch of rain fell within one hour. Near the McCracken County line, Kentucky 358 was covered with about an inch of flowing water for about 50 yards.				
CALDWELL COUNTY --- COBB [36.98, -87.77]				
	04/24/10 14:00 CST		0	Heavy Rain
	04/24/10 14:45 CST		0	Source: COOP Observer
Three-quarters of an inch of rain fell in 14 minutes.				
CALLOWAY COUNTY --- HAZEL [36.50, -88.32], HAMLIN [36.60, -88.07]				
	04/24/10 14:08 CST		30K	Thunderstorm Wind (EG 52 kt)
	04/24/10 14:23 CST		0	Source: Emergency Manager
Trees were down in the community of Hazel. Numerous large trees were down six miles east-southeast of Murray. Ten to fifteen of the trees were blocking roads. Several power lines were down. Numerous trees were topped in Hamlin.				
TRIGG COUNTY --- 2.0 NNW CADIZ [36.90, -87.83], 5.0 SSW CADIZ [36.80, -87.85]				
	04/24/10 14:35 CST		10K	Thunderstorm Wind (EG 52 kt)
	04/24/10 14:40 CST		0	Source: Law Enforcement
Several trees were blown down, blocking roads. A barn was slightly damaged.				
CHRISTIAN COUNTY --- 2.0 E HOPKINSVILLE [36.85, -87.44], 8.0 NE HOPKINSVILLE [36.93, -87.38]				
	04/24/10 15:00 CST		0	Heavy Rain
	04/24/10 15:30 CST		0	Source: Trained Spotter
Heavy rain and minor road flooding was reported east of Hopkinsville. One inch fell within 15 minutes in the community of Lacey, where some roads were flooded.				
HOPKINS COUNTY --- 4.0 S MADISONVILLE [37.27, -87.50], EARLINGTON [37.27, -87.52]				
	04/24/10 15:00 CST		3K	Thunderstorm Wind (MG 54 kt)
	04/24/10 15:00 CST		0	Source: Mesonet
A wind gust to 62 mph was measured at the Kentucky mesonet site south of Madisonville. A live power line came down across a road in Earlington.				
CHRISTIAN COUNTY --- 2.0 SW PEMBROKE [36.76, -87.38], PEMBROKE [36.78, -87.35]				
	04/24/10 15:23 CST		4K	Tornado (EF0, L: 2.00 mi , W: 40 yd)
	04/24/10 15:27 CST		0	Source: NWS Storm Survey
Several trees or tree limbs were blown down. Minor damage occurred to a home, consisting mainly of gutter damage. The tornado track was mostly across fields. The tornado was photographed near the initial touchdown and was also observed less than one mile from Pembroke. Peak winds were estimated near 75 mph.				

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MUHLENBERG COUNTY --- POWDERLY [37.23, -87.17]				
	04/24/10 15:25 CST		0	Heavy Rain
	04/24/10 15:50 CST		0	Source: Trained Spotter
A trained spotter reported 1.05 inches of rain in 40 minutes. Minor road flooding occurred countywide.				
TODD COUNTY --- BRITMART [36.88, -87.28], ALLEGRE [36.93, -87.22]				
	04/24/10 15:25 CST		20K	Thunderstorm Wind (EG 61 kt)
	04/24/10 15:30 CST		0	Source: Newspaper
Near Britmart, a mobile home was blown off its foundation, and a barn roof was damaged. Near Allegre, a falling tree split a trailer in half.				
TODD COUNTY --- ELKTON [36.82, -87.15]				
	04/24/10 15:25 CST		0	Heavy Rain
	04/24/10 16:17 CST		0	Source: Trained Spotter
Heavy rain produced standing water along many roadways countywide.				
DAVIESS COUNTY --- 2.0 NE PHILPOT [37.75, -86.95]				
	04/24/10 15:36 CST		0	Thunderstorm Wind (MG 54 kt)
	04/24/10 15:36 CST		0	Source: Broadcast Media
A measured wind gust to 62 mph was reported by broadcast media.				
MUHLENBERG COUNTY --- POWDERLY [37.23, -87.17]				
	04/24/10 15:44 CST		0	Thunderstorm Wind (EG 50 kt)
	04/24/10 15:44 CST		0	Source: Trained Spotter
A trained spotter observed branches were breaking off trees.				
CHRISTIAN COUNTY --- 0.8 SE KENNEDY [36.64, -87.39], 1.2 E BARKERS MILL [36.67, -87.33]				
	04/24/10 15:46 CST		50K	Thunderstorm Wind (EG 78 kt)
	04/24/10 15:52 CST		0	Source: NWS Storm Survey
The microburst damage extended from along the Kentucky/Tennessee border northeastward to the Todd County border. Many dozens of trees were uprooted or broken. A barn was levelled. Several other barns received moderate to major damage. A few homes suffered minor damage, such as partial loss of shingles and porch damage.				
TODD COUNTY --- 2.5 WSW SOUTH ZION [36.67, -87.32], 3.5 SE TRENTON [36.68, -87.23]				
	04/24/10 15:52 CST		75K	Thunderstorm Wind (EG 78 kt)
	04/24/10 16:00 CST		0	Source: NWS Storm Survey
The microburst damage extended from along the Christian/Todd county border northeastward across southern Todd County. Many dozens of trees were uprooted or broken, blocking a few roads. A barn was levelled. Several other barns received moderate to major damage. A few homes suffered minor damage, such as partial loss of shingles and porch damage. Near Trenton, a falling tree destroyed a garage and cars inside.				
A well-organized upper level low moved east from the central Plains into the Mid Missouri Valley during the day. Very strong winds aloft accompanied this system. A streak of very strong mid level winds punched northeast from the Arklatex region into the Lower Ohio Valley during the afternoon. A low level jet from 50 to 60 knots over the Lower Mississippi Valley nosed into the Lower Ohio Valley. At the surface, a low pressure center tracked from north central Arkansas to near St. Louis by late afternoon. Though surface dew points climbed into the lower to mid 60's, extensive cloudcover along and ahead of a warm front limited instability. The instability was generally weak, characterized by cape values below 1000 j/kg.				

MISSOURI, Southeast

CAPE GIRARDEAU COUNTY --- 1.0 ENE GULF JCT [37.27, -89.53], 1.4 ENE GULF JCT [37.28, -89.52], 0.9 SE CAPE GIRARDEAU [37.29, -89.52], 0.8 SSE CAPE GIRARDEAU [37.29, -89.52]				
	04/01/10 00:00 CST		0	Flood (due to Heavy Rain)
	04/15/10 12:00 CST		0	Source: River/Stream Gage

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Minor flooding of the Mississippi River occurred around Cape Girardeau. Some low-lying fields and river access facilities were under water.

Heavy rainfall in mid-March caused the Mississippi River to rise above flood stage. The river crested by the end of March, then fell below flood stage in mid-April.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT	04/06/10 11:00 CST		6K	Strong Wind (MAX 39 kt)
	04/06/10 18:00 CST		0	

Strong south winds occurred between a low pressure center over Kansas and high pressure off the southeast United States coast. Peak wind gusts ranged from 40 to 45 mph from Poplar Bluff northeast across Cape Girardeau and Marble Hill to Perryville.

STODDARD COUNTY --- 1.9 NNW ADVANCE [37.12, -89.94]	04/07/10 15:35 CST		20K	Thunderstorm Wind (EG 61 kt)
	04/07/10 15:35 CST		0	Source: Newspaper

A 150-year-old wood barn was destroyed. Some debris from the tin roof was blown a considerable distance. The barn was constructed of hand-hewn cypress logs up to 42 feet long.

CAPE GIRARDEAU COUNTY --- 2.1 NNE DUTCHTOWN [37.28, -89.66], 5.0 NW CAPE GIRARDEAU [37.35, -89.59]	04/07/10 16:02 CST		0	Hail (0.88 in)
	04/07/10 16:15 CST		0	Source: Trained Spotter

Nickel-sized hail fell two miles north of Dutchtown. A swath of dime to nickel-sized hail continued northeast, passing between Gordonville and the city of Cape Girardeau.

MISSISSIPPI COUNTY --- EAST PRAIRIE [36.78, -89.38]	04/07/10 16:15 CST		0	Heavy Rain
	04/07/10 18:00 CST		0	Source: Trained Spotter

A trained spotter measured 1.8 inches of rain within two hours.

A cold front trailed south-southwestward from a surface low pressure center over west central Illinois through southeast Missouri. This cold front provided the low level lift for short lines of thunderstorms to develop during the late afternoon. Some breaks in the clouds allowed sunshine to destabilize the atmosphere, but mixed layer capes remained at or below 1000 j/kg due to modest lapse rates and low-level moisture. Surface dew points around 60 degrees pooled along the front. Wind profiles were unidirectional and generally parallel to the front. As a result, the storms were mainly organized into short linear structures with some bowing segments.

(MO-Z076) PERRY, (MO-Z086) BOLLINGER, (MO-Z087) CAPE GIRARDEAU, (MO-Z100) WAYNE, (MO-Z107) CARTER, (MO-Z108) RIPLEY, (MO-Z109) BUTLER, (MO-Z110) STODDARD, (MO-Z111) SCOTT, (MO-Z112) MISSISSIPPI, (MO-Z114) NEW MADRID	04/09/10 03:00 CST		0	Frost/Freeze
	04/09/10 07:00 CST		0	

Surface high pressure brought clear skies and light winds, setting the stage for frost formation. Temperatures bottomed out in the mid to upper 30's in most places. The cold spot was Doniphan, where the low was 32 degrees. The strawberry crop was the most vulnerable to damage, since most other vegetation was still dormant.

WAYNE COUNTY --- GREENVILLE [37.13, -90.47]	04/23/10 17:00 CST		20K	Heavy Rain
	04/24/10 08:30 CST		0	Source: Newspaper

A home was damaged when a portion of a basement wall collapsed. About three inches of rain fell during the previous night and early morning. The collapse occurred due to water collecting in recently excavated soil. The weight of the saturated mud caused one of the basement's concrete walls to collapse. The roof of the house began sagging after the collapse.

BUTLER COUNTY --- POPLAR BLUFF [36.75, -90.40], 0.7 E POPLAR BLUFF [36.75, -90.39], 1.8 NNE POPLAR BLUFF [36.77, -90.39], 1.9 NW POPLAR BLUFF [36.77, -90.42]	04/23/10 18:35 CST		30K	Flash Flood (due to Heavy Rain)
	04/23/10 20:15 CST		0	Source: Law Enforcement

Widespread street flooding was reported on the north side of Poplar Bluff and a few streets downtown. Some motorists were stranded in their vehicles. Police assisted stranded motorists and blocked flooded roads. Rainfall rates were estimated by radar around three inches within a couple hours over Poplar Bluff.

Storm Data and Unusual Weather Phenomena - April 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Southwest flow aloft brought an abundance of moisture in the form of increased cloud cover and occasional thunderstorms. At the surface, a large storm system developed in the southern Plains and moved only slowly northeast. Locally heavy rain and some isolated flooding resulted from the wet pattern.

NEW MADRID COUNTY --- 0.6 SSE HOWARDVILLE [36.57, -89.58]

04/24/10 12:00 CST	8K	Thunderstorm Wind (EG 56 kt)
04/24/10 12:00 CST	0	Source: Emergency Manager

A new farmer's market and flea market structure was destroyed. The structure was an open structure with no solid walls. A temporary booth-like structure used for auctions was blown over. The damage was near the 44-mile marker on Interstate 55.

NEW MADRID COUNTY --- 2.4 E HENDERSON MOUND [36.72, -89.43], 3.5 ENE HENDERSON MOUND [36.73, -89.41]

04/24/10 12:16 CST	50K	Thunderstorm Wind (EG 100 kt)
04/24/10 12:18 CST	0	Source: NWS Storm Survey

This intense macroburst began in northeast New Madrid County, but the vast majority of the damage was in Mississippi County. Winds estimated near 115 mph heavily damaged a house under construction off Route OO. There was extensive damage to walls and the roof. A nearby 30-by-40 foot shed was blown away. A 14-foot boat was thrown about one-half mile. Most of the path was over very sparsely populated cropland. Tin and small metal frames were visible in fields off Highway BB, most likely debris from barns and sheds. Small tree limbs were down near tree lines that separated farm fields.

MISSISSIPPI COUNTY --- 3.5 SSW EAST PRAIRIE [36.73, -89.41], 3.0 NE EAST PRAIRIE [36.81, -89.34]

04/24/10 12:18 CST	0.25M	Thunderstorm Wind (EG 104 kt)
04/24/10 12:28 CST	1	Source: NWS Storm Survey

A macroburst approximately eight miles long and three miles wide struck the East Prairie area with winds up to 120 mph. The origins of the macroburst were in New Madrid County, but the vast majority of the event occurred in Mississippi County. The highest concentration of damage was in East Prairie. On County Road 535 on the outskirts of East Prairie, two mobile homes were demolished. A single-wide mobile home was completely separated from the frame, which was blown 100 yards until it struck a brick house. The sole occupant of the mobile home was a young adult who received only numerous minor abrasions that did not require hospitalization. A second nearby single-wide mobile home was blown a very short distance into trees and destroyed. This mobile home had been vacant for years. Both mobile homes were tied down. A nearby house lost most of the roof, and a large section of the windward-facing exterior wall was blown in. In the city of East Prairie, three industrial buildings were heavily damaged or destroyed. A large industrial block building was partially unroofed, a wood frame metal building was destroyed, and a wooden industrial shop was destroyed. The roof of the police department was damaged. Numerous trees were blown down in and near East Prairie, some damaging homes. Several farm buildings received minor to major damage southwest of town. Outside of town, several irrigation pivots were blown over, a barn was damaged, and a travel trailer was overturned. An empty grain bin was blown away. The peak wind of 120 mph was supported by damage to several structures, including the industrial buildings in East Prairie and the house and mobile homes on the outskirts of town. This was among the strongest downbursts ever documented in southeast Missouri.

MISSISSIPPI COUNTY --- 2.4 SW CHARLESTON [36.89, -89.36], 0.5 ESE CHARLESTON [36.92, -89.32]

04/24/10 12:51 CST	5K	Thunderstorm Wind (EG 61 kt)
04/24/10 12:54 CST	0	Source: NWS Storm Survey

About 20 percent of the metal was blown off a barn roof on Highway 105 south of Charleston. An interstate highway sign supported by two poles was blown down along Interstate 57 at exit 12, which is the U.S. Highway 60 exit.

A well-organized upper level low moved east from the central Plains into the Mid Missouri Valley during the day. Very strong winds aloft accompanied this system. A streak of very strong mid level winds punched northeast from the Arklatex region into the Lower Ohio Valley during the afternoon. A low level jet from 50 to 60 knots over the Lower Mississippi Valley nosed into the Lower Ohio Valley. At the surface, a low pressure center tracked from north central Arkansas to near St. Louis by late afternoon. Though surface dew points climbed into the lower to mid 60's, extensive cloudcover along and ahead of a warm front limited instability. The instability was generally weak, characterized by cape values below 1000 j/kg. Most of the damage was the result of a line of thunderstorms that suddenly accelerated northeast from New Madrid and Mississippi Counties.

Storm Data and Unusual Weather Phenomena - April 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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Photo of the site of the demolished single-wide mobile home on County Road 535 on the outskirts of East Prairie. The sole occupant of the mobile home was ejected after it rolled at least twice, but he only received minor injuries. The frame of the mobile home, which separated from the unit, stopped when it struck the house in the background. The view of the house, which is about 100 yards away, is mostly obstructed by trees. The frame was dragged back to the mobile home lot before this photo was taken. NWS Photo.

CAPE GIRARDEAU COUNTY --- 1.1 E GULF JCT [37.27, -89.53], 1.3 E GULF JCT [37.27, -89.53], 0.8 SE CAPE GIRARDEAU [37.29, -89.52], 0.7 SSE CAPE GIRARDEAU [37.29, -89.52]

04/28/10 06:00 CST	0	Flood (due to Heavy Rain)
04/30/10 23:59 CST	0	Source: River/Stream Gage

Minor flooding of the Mississippi River occurred near Cape Girardeau. Some low-lying fields and river access points were under water.

Another round of heavy rain in the upper Mississippi River Valley caused the Mississippi River to rise above flood stage by the end of the month.

CARTER COUNTY --- 1.4 NNW ELLSINORE [36.95, -90.76]

04/30/10 20:30 CST	0	Funnel Cloud
04/30/10 20:30 CST	0	Source: Trained Spotter

A trained spotter reported a funnel cloud off Highway N.

BOLLINGER COUNTY --- PATTON [37.50, -90.02]

04/30/10 21:03 CST	0	Hail (0.75 in)
04/30/10 21:03 CST	0	Source: Law Enforcement

Dime-size hail was reported in and around Patton.

Storm Data and Unusual Weather Phenomena - April 2010

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
BOLLINGER COUNTY --- 2.8 SE ALLIANCE [37.54, -89.96]				
	04/30/10 21:10 CST		0	Hail (1.00 in)
	04/30/10 21:10 CST		0	Source: Emergency Manager
Quarter-size hail fell northwest of Sedgwickville near the end of Highway EE.				
BUTLER COUNTY --- 10.0 S POPLAR BLUFF [36.61, -90.40]				
	04/30/10 22:30 CST		0	Thunderstorm Wind (EG 52 kt)
	04/30/10 22:30 CST		0	Source: Trained Spotter
Tree branches were broken and down.				
CAPE GIRARDEAU COUNTY --- CAPE GIRARDEAU [37.30, -89.53], 2.0 NNE GORDONVILLE [37.35, -89.67]				
	04/30/10 22:35 CST		3K	Thunderstorm Wind (MG 50 kt)
	04/30/10 22:50 CST		0	Source: Broadcast Media
A wind gust of 58 mph was measured at a television station in Cape Girardeau. Trees were down in the Jackson and Gordonville areas.				
BUTLER COUNTY --- 4.3 W POPLAR BLUFF [36.76, -90.48], 1.2 WNW POPLAR BLUFF [36.76, -90.42], 3.3 SSW POPLAR BLUFF [36.71, -90.42], 2.9 ENE LONE HILL [36.71, -90.48]				
	04/30/10 23:15 CST		30K	Flash Flood (due to Heavy Rain)
	04/30/10 23:55 CST		0	Source: Law Enforcement
Several roads were flooded and impassable. County Highway 302 had sections of the road washed away.				
SCOTT COUNTY --- 3.5 NW VANDUSER [37.04, -89.72]				
	04/30/10 23:20 CST		0	Heavy Rain
	04/30/10 23:50 CST		0	Source: Law Enforcement
Water was over Highway 91 and CC Highway.				
Thunderstorms developed ahead of an eastward moving cold front over the Ozarks. Strengthening mid-level winds ahead of a strong shortwave trough over the central Plains aided storm development. Moderate instability combined with strong effective bulk shear around 50 knots provided very favorable conditions for supercells as the storms spread northeastward.				